

April 29, 2019, Monday

Get a sheet of colored paper!

From the Geometry Formula Sheet, Copy:  
perimeter, distance, partitioning equations on to your paper

GSE Geometry

Unit 2 – Similarity, Congruence, and Proofs

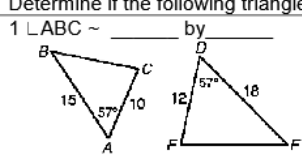
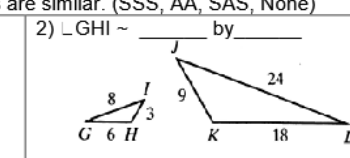
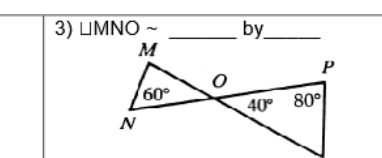
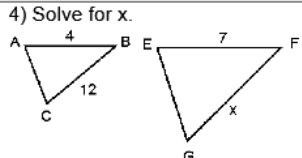
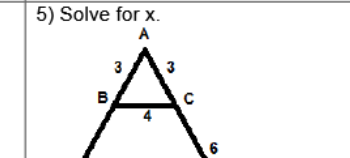
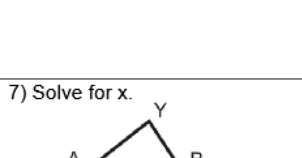
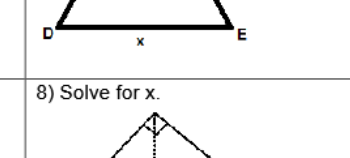
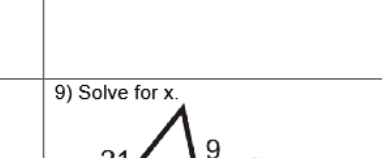
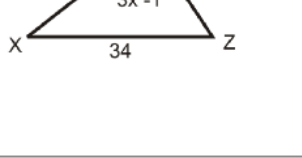
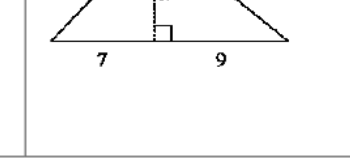
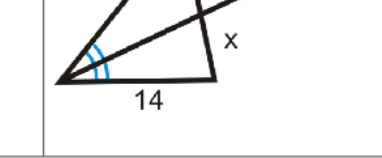
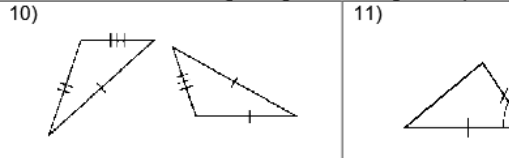
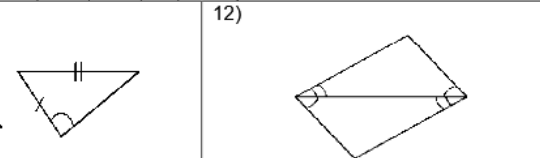
EOC Review

Name: \_\_\_\_\_

Block: \_\_\_\_\_

**Vocabulary:** SSS, SAS, ASA, AAS, HL, CPCTC, Reflexive Property, Definition of a Midpoint, Midsegment.

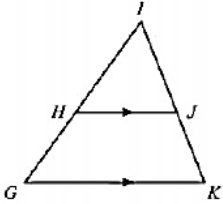
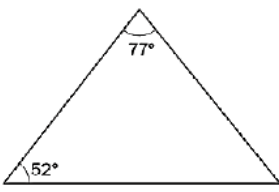
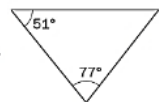

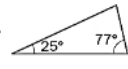
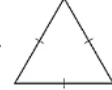
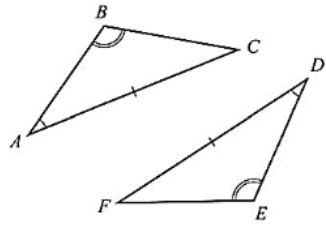
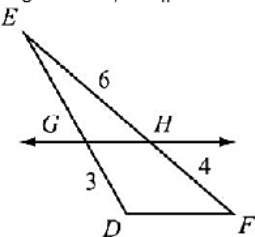
Determine if the following triangles are similar. (SSS, AA, SAS, None)

<p>1) <math>\triangle ABC \sim</math> _____ by _____</p> 	<p>2) <math>\triangle GHI \sim</math> _____ by _____</p> 	<p>3) <math>\triangle MNO \sim</math> _____ by _____</p> 																							
<p>4) Solve for x.</p> 	<p>5) Solve for x.</p> 	<p>6) If a 42.9 ft tall flagpole casts a 253.1 ft long shadow, then how long is the shadow that a 6.2 ft. tall woman casts?</p>																							
<p>7) Solve for x.</p> 	<p>8) Solve for x.</p> 	<p>9) Solve for x.</p> 																							
<p>Determine if the following triangles are congruent. (SSS, SAS, ASA, AAS, HL, None)</p>																									
<p>10)</p> 	<p>11)</p> 	<p>12)</p> 																							
<p>13) Given: <math>\overline{AB} \cong \overline{DC}</math> Prove: <math>\triangle ABC \cong \triangle CDA</math></p>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Statements</th> <th style="width:50%;">Reasons</th> </tr> </thead> <tbody> <tr> <td>1. <math>\overline{AB} \cong \overline{DC}</math></td> <td>1.</td> </tr> <tr> <td>2. <math>\overline{AC} \cong \overline{AC}</math></td> <td>2.</td> </tr> <tr> <td>3. <math>\angle ABC</math> &amp; <math>\angle CDA</math> are right angles.</td> <td>3.</td> </tr> <tr> <td>4. <math>\angle ABC \cong \angle CDA</math></td> <td>4.</td> </tr> <tr> <td>5. <math>\triangle ABC \cong \triangle CDA</math></td> <td>5.</td> </tr> </tbody> </table>	Statements	Reasons	1. $\overline{AB} \cong \overline{DC}$	1.	2. $\overline{AC} \cong \overline{AC}$	2.	3. $\angle ABC$ & $\angle CDA$ are right angles.	3.	4. $\angle ABC \cong \angle CDA$	4.	5. $\triangle ABC \cong \triangle CDA$	5.	<p>14) Given: <math>\overline{RT} \cong \overline{TV}</math>, <math>\overline{ST} \cong \overline{TU}</math> Prove: <math>\angle TSR \cong \angle TUV</math></p>  <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:50%;">Statements</th> <th style="width:50%;">Reasons</th> </tr> </thead> <tbody> <tr> <td>1. <math>\overline{RT} \cong \overline{TV}</math></td> <td>1.</td> </tr> <tr> <td>2.</td> <td>2. Given</td> </tr> <tr> <td>3. <math>\angle RTS \cong \angle TVU</math></td> <td>3.</td> </tr> <tr> <td>4. <math>\triangle RTS \cong \triangle TVU</math></td> <td>4.</td> </tr> <tr> <td>5. <math>\angle TSR \cong \angle TUV</math></td> <td>5.</td> </tr> </tbody> </table>	Statements	Reasons	1. $\overline{RT} \cong \overline{TV}$	1.	2.	2. Given	3. $\angle RTS \cong \angle TVU$	3.	4. $\triangle RTS \cong \triangle TVU$	4.	5. $\angle TSR \cong \angle TUV$	5.
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GSE Geometry

Unit 2 – Similarity, Congruence, and Proofs

EOC Review

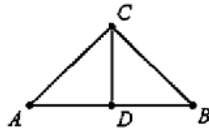
		Answers																					
<p>1) Use this triangle to answer the question.</p>  <p>This is a proof of the statement "If a line is parallel to one side of a triangle and intersects the other two sides at distinct points, then it separates these sides into segments of proportional lengths."</p> <table border="1" data-bbox="263 862 742 1131"> <thead> <tr> <th>Step</th> <th>Statement</th> <th>Justification</th> </tr> </thead> <tbody> <tr> <td>1</td> <td><math>\overline{GK}</math> is parallel to <math>\overline{HJ}</math>.</td> <td>Given</td> </tr> <tr> <td>2</td> <td><math>\angle HGK \cong \angle IHJ</math> <math>\angle IKG \cong \angle IJH</math></td> <td>?</td> </tr> <tr> <td>3</td> <td><math>\triangle GIK \sim \triangle HJ I</math></td> <td>AA Similarity</td> </tr> <tr> <td>4</td> <td><math>\frac{IG}{IH} = \frac{IK}{IU}</math></td> <td>Corresponding sides of similar triangles are proportional.</td> </tr> <tr> <td>5</td> <td><math>\frac{HG + IH}{IH} = \frac{JK + IU}{IU}</math></td> <td>Segment Addition Postulate</td> </tr> <tr> <td>6</td> <td><math>\frac{HG}{IH} = \frac{JK}{IU}</math></td> <td>Subtraction Property of Equality</td> </tr> </tbody> </table> <p>Which reason justifies step 2?</p> <p>A. Alternate interior angles are congruent.                  B. Alternate exterior angles are congruent.                  C. Corresponding angles are congruent.                  D. Vertical angles are congruent.</p>	Step	Statement	Justification	1	$\overline{GK}$ is parallel to $\overline{HJ}$ .	Given	2	$\angle HGK \cong \angle IHJ$ $\angle IKG \cong \angle IJH$	?	3	$\triangle GIK \sim \triangle HJ I$	AA Similarity	4	$\frac{IG}{IH} = \frac{IK}{IU}$	Corresponding sides of similar triangles are proportional.	5	$\frac{HG + IH}{IH} = \frac{JK + IU}{IU}$	Segment Addition Postulate	6	$\frac{HG}{IH} = \frac{JK}{IU}$	Subtraction Property of Equality	<p>2) Look at the triangle.</p>  <p>Which triangle is similar to the given triangle?</p> <p>A. </p> <p>B. </p> <p>C. </p> <p>D. </p>	<p>1) _____</p> <p>2) _____</p>
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<p>3) Which can be used to prove the triangles are congruent?</p>  <p>A. SSS                  B. ASA                  C. SAS                  D. AAS</p>	<p>4) In the triangle shown, <math>GH \parallel DF</math>.</p>  <p>What is the length of GE?</p> <p>A. 2.0                  B. 4.5                  C. 7.5                  D. 8.0</p>	<p>3) _____</p> <p>4) _____</p>																					

GSE Geometry

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EOC Review

5) In the diagram,  $CD$  is the perpendicular bisector of  $AB$ . The two-column proof shows that  $AC$  is congruent to  $BC$ .

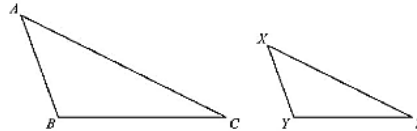


Step	Statement	Justification
1	$\overline{CD}$ is the perpendicular bisector of $\overline{AB}$ .	Given
2	$\overline{AD} \cong \overline{BD}$	Definition of bisector
3	$\overline{CD} \cong \overline{CD}$	Reflexive Property of Congruence
4	$\angle ADC$ and $\angle BDC$ are right angles.	Definition of perpendicular lines
5	$\angle ADC \cong \angle BDC$	All right angles are congruent.
6	$\triangle ADC \cong \triangle BDC$	_____ ? _____
7	$\overline{AC} \cong \overline{BC}$	CPCTC

Which of the following would justify step 6?

- A. ASS
- B. ASA
- C. SAS
- D. SSS

6) In the triangles shown,  $\triangle ABC$  is dilated by a factor of  $\frac{2}{3}$  to form  $\triangle XYZ$ .



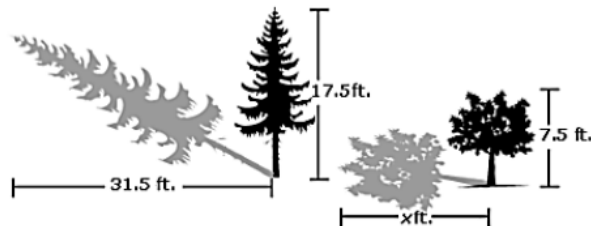
Given that  $m\angle A = 50^\circ$  and  $m\angle B = 100^\circ$ , what is  $m\angle Z$ ?

- A. 15
- B. 25
- C. 30
- D. 50

5) \_\_\_\_\_

6) \_\_\_\_\_

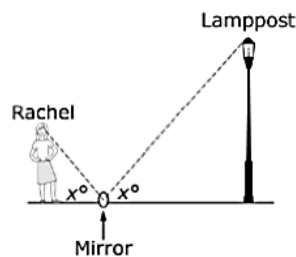
7. Given the diagram below, what is the value of  $x$ ?



- A. 13.5
- B. 14.6
- C. 15.5
- D. 16.6

7) \_\_\_\_\_

8. To find the height of a lamppost at a park, Rachel placed a mirror on the ground 20 feet from the base of the lamppost. She then stepped back 4 feet so that she could see the top of the lamppost in the center of the mirror. Rachel's eyes are 5 feet and 6 inches above the ground. What is the height, in feet, of the lamppost?



8) \_\_\_\_\_

nd area of a sector of a circle on to your paper.

April 30, 2019, Tuesday

GSE Geometry

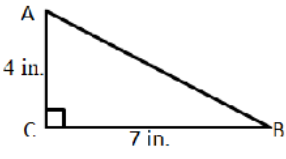
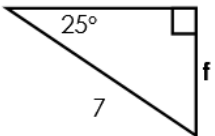
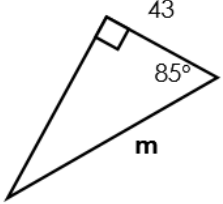
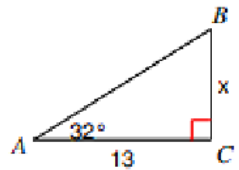
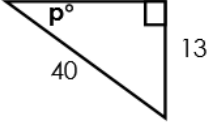
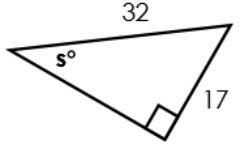
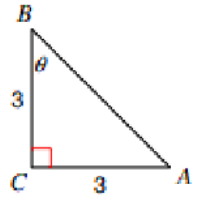
Unit 3 – Right Triangles

EOC Review

Name: \_\_\_\_\_

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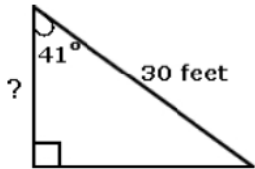
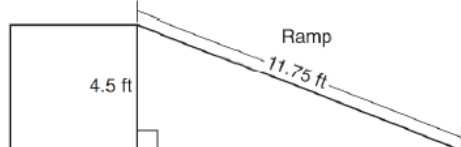
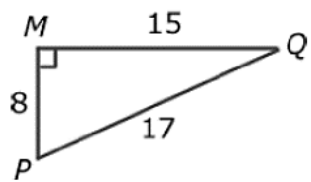
**Vocabulary:** Sine, cosine, tangent, complements

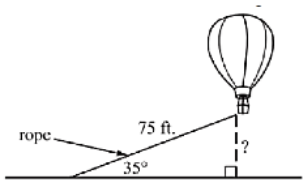
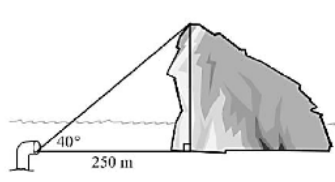
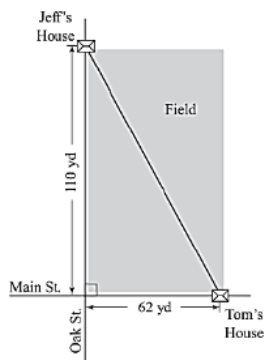
	<p>1) Find <math>\sin A =</math></p> <p>2) Find <math>\tan B =</math></p> <p>3) Find <math>\cos B =</math></p> <p>4) Find <math>\tan A =</math></p>	<p>5) <math>\sin 75^\circ = \cos \underline{\hspace{2cm}}</math></p> <p>6) <math>\cos 40^\circ = \sin \underline{\hspace{2cm}}</math></p> <p>7) <math>\cos 54^\circ = \cos \underline{\hspace{2cm}}</math></p>
<p>8) Find <math>f</math>.</p> 	<p>9) Find <math>m</math>.</p> 	<p>10) Find <math>x</math>.</p> 
<p>11) Find angle <math>P</math>.</p> 	<p>12) Find <math>s</math>.</p> 	<p>13) Solve for theta.</p> 
<p>14) From 25 feet away from the base of a building, the angle of elevation from the ground to the top of a building is measured to be <math>38^\circ</math>. How tall is the building?</p>		<p>15) A kite is 35 feet in the air and the string forms an angle of <math>62^\circ</math> with the ground. How long is the string?</p>

GSE Geometry

Unit 3 – Right Triangles

EOC Review

	Answers
<p>1) A 30-foot long escalator forms a <math>41^\circ</math> angle at the second floor. Which is the closest height of the first floor?</p> <p>A. 20 feet                      B. 22.5 feet                      C. 24.5 feet                      D. 26 feet</p> 	<p>1) _____</p>
<p>2) The diagram below shows a ramp connecting the ground to a loading platform 4.5 feet above the ground. The ramp measures 11.75 feet from the ground to the top of the loading platform. Find the angle of elevation.</p> 	<p>2) _____</p>
<p>3) What is the sine ratio of <math>\angle P</math> in the given triangle?</p> <p>A. <math>\frac{8}{17}</math>                      B. <math>\frac{8}{15}</math>                      C. <math>\frac{15}{17}</math>                      D. <math>\frac{15}{8}</math></p> 	<p>3) _____</p>
<p>4) Which is equal to <math>\sin 30^\circ</math>?</p> <p>A. <math>\cos 30^\circ</math>                      B. <math>\cos 60^\circ</math>                      C. <math>\sin 60^\circ</math>                      D. <math>\sin 70^\circ</math></p>	<p>4) _____</p>

GSE Geometry	Unit 3 – Right Triangles	EOC Review
<p>5) A rope is tied to the bottom of a hot air balloon as shown below. The rope makes an angle of <math>35^\circ</math> with the ground and is 75 ft. long. How far is the bottom of the balloon from the ground to the nearest foot?</p>  <p>A. 43 ft. B. 53 ft. C. 61 ft. D. 131 ft.</p>		<p>5) _____</p>
<p>6) The captain of a submarine views an iceberg from his periscope, as shown in the figure below. What is the height of the iceberg to the nearest meter?</p>  <p>A. 161 m B. 192 m C. 210 m D. 298 m</p>		<p>6) _____</p>
<p>7) Jeff lives on Oak Street, and Tom lives on Main Street. How much farther, to the nearest yard, is it for Tom to walk down Main Street and turn on Oak Street</p>  <p>A. 46 yd B. 48 yd C. 126 yd D. 172 yd</p>		<p>7) _____</p>



May 1, 2019, Wednesday

Get a sheet of colored paper!

From the Geometry Formula Sheet, Copy:  
perimeter, distance, partitioning equations on to your paper

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Copy: Circumference of a Circle, Arc length of a circle,  
area and area of a sector of a circle on to your paper.

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Copy: Pythagorean Theorem, Trigonometric  
Relationships, equation of a circle on to your paper

USATestPrep -  
You MUST complete at least 3 exercises  
today with a passing score!!

GSE Geometry

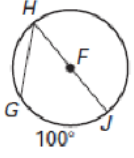
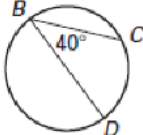
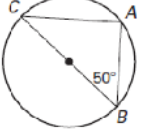
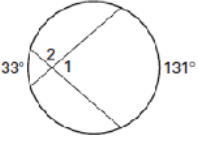
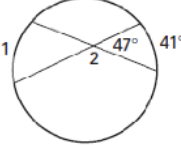
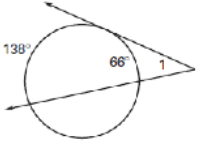
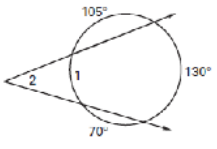
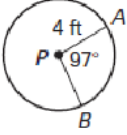
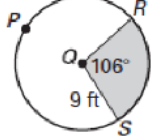
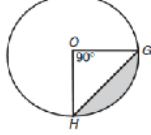
Unit 4 – Circles, Angles, and Area

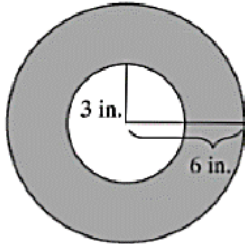
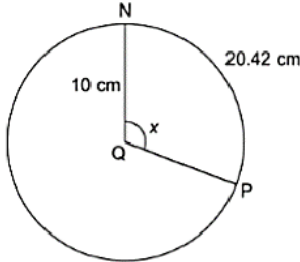
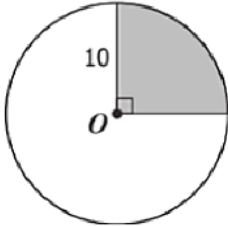
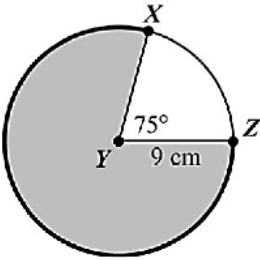
EOC Review

Name: \_\_\_\_\_

Block: \_\_\_\_\_

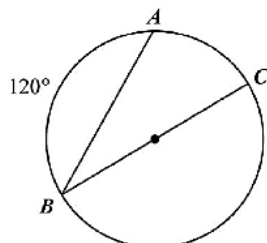
**Vocabulary:** Sine, cosine, tangent, complements

<p>1) Find <math>m\angle GHJ</math></p> 	<p>2) Find <math>m\angle CD</math></p> 	<p>3) Find <math>m\angle C</math></p> 
<p>4) Find <math>m\angle 1</math> and <math>m\angle 2</math></p> 	<p>5) Find 1 &amp; 2</p> 	<p>6) Find 1.</p> 
<p>7) Find 1 &amp; 2.</p> 	<p>8) Find the area of a circle with a diameter of 22 inches.</p>	<p>9) The circumference of a circle is 25.12 ft. What is the radius?</p>
<p>10) Find the arc length of <math>AB</math></p> 	<p>11) Find the area of the shaded region</p> 	<p>12) If the radius of the circle is 6 centimeters, what is the area of the shaded segment?</p> 

GSE Geometry	Unit 4 – Circles, Angles, and Area	EOC Review
<p>1) An insulated foam sleeve is made to fit over water pipe. The distance from the center of the water pipe to the edge of the sleeve is 6 inches. The hole in the center has a radius of 3 inches. <b>What is the area of the face of the foam sleeve?</b></p> <p>A. <math>9.42 \text{ in}^2</math>            B. <math>18.84 \text{ in}^2</math>            C. <math>84.78 \text{ in}^2</math>            D. <math>141.30 \text{ in}^2</math></p>		<p>Answers</p> <p>1) _____</p>
<p>2) This circle, with center point Q, has a radius of 10 centimeters. The length of the minor arc NP is 20.42 centimeters. To the nearest degree, <b>what is the value of x?</b></p> <p>A. <math>110^\circ</math>            B. <math>117^\circ</math>            C. <math>204^\circ</math>            D. <math>233^\circ</math></p>		<p>2) _____</p>
<p>3) Find the area of the shaded sector of circle O.</p> <p>A. <math>5\pi</math>            B. <math>20\pi</math>            C. <math>25\pi</math>            D. <math>50\pi</math></p>		<p>3) _____</p>
<p>4) What is the area of the shaded part of the circle?</p> <p>A. <math>\frac{57}{4}\pi \text{ cm}^2</math>            B. <math>\frac{135}{8}\pi \text{ cm}^2</math>            C. <math>\frac{405}{8}\pi \text{ cm}^2</math>            D. <math>\frac{513}{8}\pi \text{ cm}^2</math></p>		<p>4) _____</p>

GSE Geometry Unit 4 – Circles, Angles, and Area EOC Review

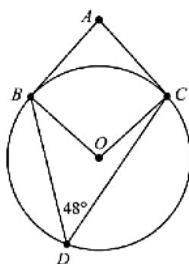
5) What is the measure of  $\angle ABC$ ?



- A.  $15^\circ$
- B.  $30^\circ$
- C.  $60^\circ$
- D.  $120^\circ$

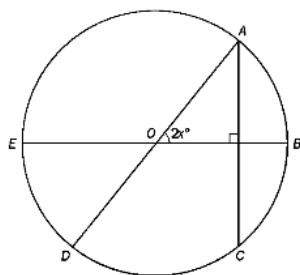
5) \_\_\_\_\_

6) In this circle, AB is tangent to the circle at point B, AC is tangent to the circle at point C, and point D lies on the circle. What is the  $m\angle BAC$ ?



6) \_\_\_\_\_

7) The measure of  $\widehat{CD}$  is  $80^\circ$ . What is the value of  $x$ ?



7) \_\_\_\_\_

- A. 50
- B. 40
- C. 35
- D. 25

May 2, 2019, Thursday

Copy Statistics Formulas, conditional probability,  
multiplication rule for independent events,  
addition rule on to your paper

Students will be taking the **Algebra I EOC on Monday (5/6/19)** and **Geometry EOC on Tuesday (5/7/19)**. I have attached a copy of the rosters for these tests. They will also be posted outside the career center and on the courtyard windows.

**All tests will start no later than 8:50am on their scheduled day.**

GSE Geometry

Unit 5 – Geometric and Algebraic Connections

EOC Review

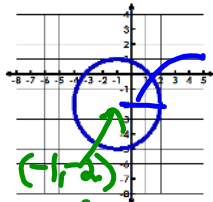
Name: \_\_\_\_\_

Block: \_\_\_\_\_

**Vocabulary:** Midpoint, distance, partition, endpoint, circle

average!

1) Write the equation of the circle in standard form



$$(x+1)^2 + (y-2)^2 = 9$$

2) Find the midpoint of (5, 1) and (6, 7).

$$\frac{5+6}{2}, \frac{1+7}{2}$$

$$\frac{11}{2}, 4$$

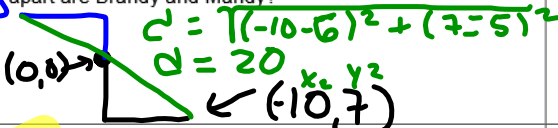
$$x_m, y_m = \left( \frac{x_1+x_2}{2}, \frac{y_1+y_2}{2} \right)$$

3) Find the coordinates of the **other endpoint** of a segment with an endpoint of (-2, 2) and a midpoint (8, 3).

4) Brandy and Mandy are in the pool playing a game of Marco Polo. Brandy swims 10 ft south and 7 ft east of base. Mandy swims 6 ft north and 5 ft west from where they started together in the middle of the pool. How far apart are Brandy and Mandy?

$x_1, y_1$   
(6, -5)

N  
W  
S  
E

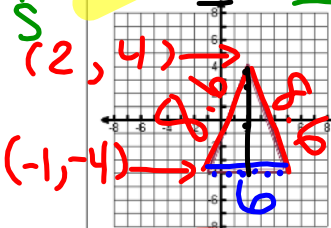


$$c = \sqrt{(-10-6)^2 + (-7-5)^2}$$

$$d = 20$$

5) Determine whether Point A (-5, 8) lies on the circle whose center is Point C (1, 2) and which contains the Point P (7, -4).

6) Find the area and perimeter of the figure.



$$A = \frac{1}{2}bh$$

$$A = \frac{1}{2}(6)8$$

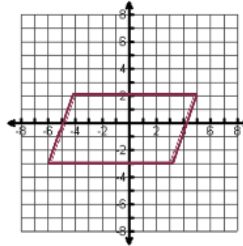
$$A = 24$$

$$d = \sqrt{(2-(-1))^2 + (4-(-4))^2}$$

$$d = 8.6$$

$$P = 8.6 + 8.6 + 6 = 23.2$$

7) Given that a parallelogram's **sides are parallel**, prove the following is a parallelogram.



8) Write an equation of the line that passes through (-3, 4) and is parallel to  $y = -3x - 1$ .

$$y = mx + b$$

$$4 = -3(-3) + b$$

$$4 = 9 + b$$

$$-5 = b$$

$$y = -3x - 5$$

9) Write an equation of the line that passes through (5, -3) and is perpendicular to  $y = -5/2x + 1$ .

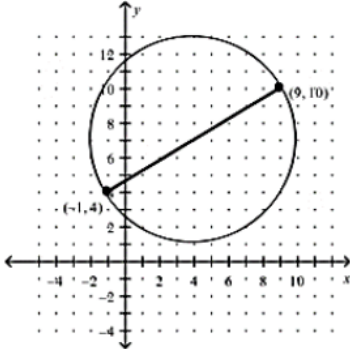
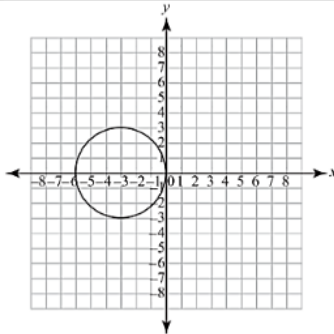
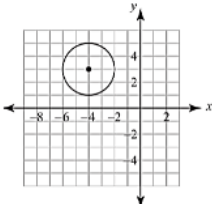
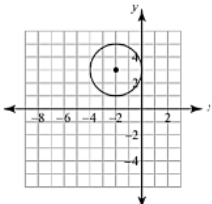
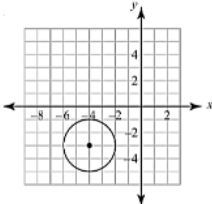
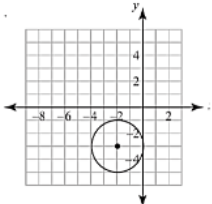
10) Find a point P on the segment with endpoints A(-1, -3) and B(7, 1) that partitions it in a 3:1 ratio.

$$\left( -1 + \frac{3}{3+1}(7-(-1)), -3 + \frac{3}{3+1}(1-(-3)) \right) = (5, 2)$$

11) Find a point T on the segment with endpoints C(-4, -6) and D(2, 3) that partitions it in a 2:1 ratio.

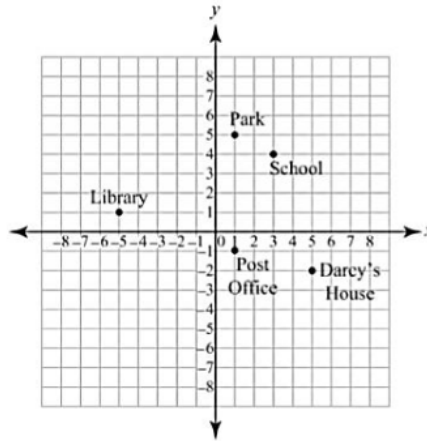
$$(5, 0)$$



GSE Geometry	Unit 5 – Geometric and Algebraic Connections	EOC Review
<p>1) A circular sidewalk is being constructed around the perimeter of a local park. A brick pathway will be added through the diameter of the circle as shown on the coordinate plane below, and a tree will be planted in the sidewalk at the center of the circle. What are the coordinates where the tree will be planted?</p>		<p>Answers</p>
<p>2) Which is the equation of the circle shown below?</p> <p>A. <math>(x - 3)^2 + y^2 = 3</math>            B. <math>(x - 3)^2 + y^2 = 9</math>            C. <math>(x + 3)^2 + y^2 = 3</math>            D. <math>(x + 3)^2 + y^2 = 9</math></p>		<p>2) _____</p>
<p>3) Given the points A(-1,2) and B(5,11), find the coordinates of the point P on directed line segment AB that partitions AB in the ratio 1:2.</p> <p>A. (1,5)            B. (2,6.5)            C. (6,9)            D. (3,4.5)</p>	<p>3) _____</p>	
<p>4) The equation of a circle is <math>(x + 2)^2 + (y + 3)^2 = 4</math>. Which represents the equation?</p> <p>A. </p> <p>B. </p> <p>C. </p> <p>D. </p>	<p>4) _____</p>	

GSE Geometry Unit 5 – Geometric and Algebraic Connections EOC Review

5) Darcy used a coordinate grid, shown below, to sketch the location of some important buildings in her town. Each block represents 1 square mile. If Darcy could travel in a straight line from her house to school, how many miles would she travel?



- A. 5.1 miles
- B. 6.3 miles
- C. 8.2 miles
- D. 9.1 miles

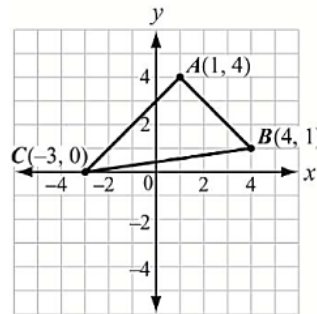
5) \_\_\_\_\_

6) Which point is on a circle with a center of (3,-9) and a radius of 5?

- A. (-6,5)
- B. (-1,6)
- C. (1,6)
- D. (6,-5)

6) \_\_\_\_\_

7) Triangle ABC has vertices as shown. What is the area of the triangle?



- A.  $\sqrt{72}$  square units
- B. 12 square units
- C.  $\sqrt{288}$  square units
- D.  $\sqrt{24}$  square units

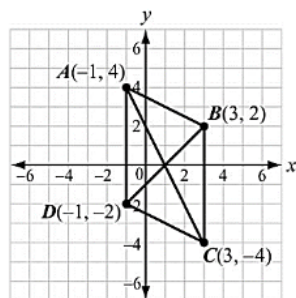
7) \_\_\_\_\_

8) The line p is represented by the equation  $y = 4x + 1$ . What is the equation of the line that is perpendicular to the line p and passes through the point (8,5)?

9) Circle P is dilated to form P'. Which statement is ALWAYS true?

- A. The radius of circle P is equal to the radius of circle P'.
- B. The length of any chord in circle P is greater than the length of any chord in circle P'.
- C. The diameter of circle P is greater than the diameter of circle P'.
- D. The ratio of the diameter to the circumference is the same for both circles.

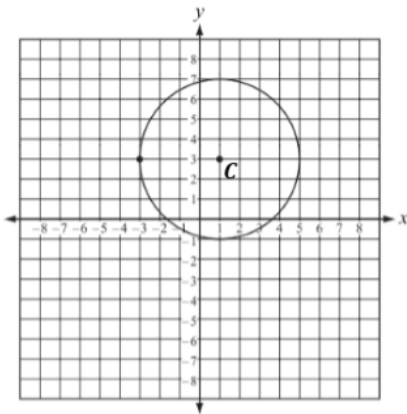
Parallelogram ABCD has vertices as shown.



Which equation would be used in proving that the diagonals of parallelogram ABCD bisect each other?

- A.  $\sqrt{(3-1)^2 + (2-0)^2} = \sqrt{(1-3)^2 + (0+4)^2}$
- B.  $\sqrt{(3+1)^2 + (2+0)^2} = \sqrt{(1+3)^2 + (0-4)^2}$
- C.  $\sqrt{(-1-1)^2 + (4-0)^2} = \sqrt{(1-3)^2 + (0+4)^2}$
- D.  $\sqrt{(-1+1)^2 + (4+0)^2} = \sqrt{(1+3)^2 + (0-4)^2}$

103. A factory uses the pattern shown below to cut circles out of sheet metal to make the bottoms of buckets.



If the center of the circle is C, what is the equation of the edge of the circular pattern?

- A.  $(x - 1)^2 + (y - 3)^2 = 16$
- B.  $(x - 1)^2 + (y - 3)^2 = 25$
- C.  $(x - 3)^2 + (y - 1)^2 = 16$
- D.  $(x - 3)^2 + (y - 1)^2 = 25$

<http://www.gaexperienceonline.com>

write 5 “things” which will be helpful to know about the online test that you would use or like another student to know about

then, USATestPrep  
3 more activities please.

May 3, 2019, Friday

Make sure the “title” of your work is at the top,  
your name is on your paper, your work is neat  
and accurate – this is a quiz grade!

GSE Geometry

Unit 6 – Probability

EOC Review


Name: \_\_\_\_\_

Block: \_\_\_\_\_

**Vocabulary:** Independent events, dependent events, conditional probability, Addition Rule, Multiplication Rule for Independent Events, outcome, overlapping events, union, intersection

Employment Survey Results			
Employment Status	Age (in Years)		Total
	Less than 18	18 or greater	
Has Job	20	587	607
Does Not Have Job	245	92	337
<b>Total</b>	<b>265</b>	<b>679</b>	<b>944</b>

<p>1) Find the probability that a randomly selected person will have a job, given they are older than 18. <math>P(\text{job}   \text{older than 18})</math>.</p> <p>2) What is the probability that person has a job?</p> <p>3) Find the <math>P(\text{Does not have a job and is less than 18})</math></p>	<p>4) What is the probability of drawing a Queen from a deck of cards, and then drawing a king without replacement?</p> <p style="text-align: center;">Independent or dependent</p> <hr/> <p>5) Drawing one card from a standard deck of cards, what is <math>P(\text{drawing a 6 card or drawing a Jack})</math></p> <p style="text-align: center;">Mutually exclusive or overlapping</p>	
<p>6) For a standard deck of cards, what is the probability of drawing a diamond, replacing it, and then drawing a 2?</p> <p style="text-align: center;">Independent or dependent</p>	<div style="text-align: center;">  </div> <p>7) Find <math>P(A)=</math></p> <p>8) Find <math>P(B)=</math></p>	<p>9) Find <math>P(B)'=</math></p> <p>10) Find <math>P(A \cup B)=</math></p> <p>11) Find <math>P(A \cap B)=</math></p> <p>12) Find <math>P(\overline{A \cap B})=</math></p>
<p>13) If you draw one card from a standard deck of cards what is <math>P(\text{jack card or heart})</math></p> <p style="text-align: center;">Mutually exclusive or overlapping</p>	<p>14) Are the events independent?  <math>P(A) = 0.08</math>; <math>P(B) = 0.4</math>;  <math>P(A \cap B) = 0.12</math></p>	<p>15) Are the events independent?  <math>P(A) = 0.30</math>; <math>P(B) = 0.15</math>;  <math>P(A \cap B) = 0.045</math></p>

GSE Geometry	Unit 6 – Probability	EOC Review																				
<p>1) For which set of probabilities would event A and B be independent?</p> <p>A. <math>P(A) = 0.25, P(B) = 0.25; P(A \text{ and } B) = 0.50</math>                      B. <math>P(A) = 0.08, P(B) = 0.40; P(A \text{ and } B) = 0.12</math>                      C. <math>P(A) = 0.16, P(B) = 0.24; P(A \text{ and } B) = 0.32</math>                      D. <math>P(A) = 0.10, P(B) = 0.30; P(A \text{ and } B) = 0.03</math></p>		<p>Answers</p> <p>1) _____</p>																				
<p>2) What is the probability that a randomly chosen person has blonde hair, given that the person selected is male?</p> <p style="text-align: center;"><b>Hair Color</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th>Brown</th> <th>Blonde</th> <th>Red</th> <th>Total</th> </tr> </thead> <tbody> <tr> <th>Male</th> <td>548</td> <td>876</td> <td>82</td> <td>1,506</td> </tr> <tr> <th>Female</th> <td>612</td> <td>716</td> <td>66</td> <td>1,394</td> </tr> <tr> <th>Total</th> <td>1,160</td> <td>1,592</td> <td>148</td> <td>2,900</td> </tr> </tbody> </table> <p>A. 0.51                      B. 0.55                      C. 0.58                      D. 0.63</p>			Brown	Blonde	Red	Total	Male	548	876	82	1,506	Female	612	716	66	1,394	Total	1,160	1,592	148	2,900	<p>2) _____</p>
	Brown	Blonde	Red	Total																		
Male	548	876	82	1,506																		
Female	612	716	66	1,394																		
Total	1,160	1,592	148	2,900																		
<p>3) When rolling a fair, six-sided number cube, what is the probability of rolling an even number or a number less than 3?</p> <p>A. <math>\frac{5}{6}</math>                      B. <math>\frac{2}{3}</math>                      C. <math>\frac{1}{2}</math>                      D. <math>\frac{1}{3}</math></p>		<p>3) _____</p>																				
<p>4) Each letter of the alphabet is written on separate cards in red ink. The cards are placed in a container. Each letter of the alphabet is also written on separate cards in black ink. The cards are placed in the same container. What is the probability that a card randomly selected from the container has a letter written in black ink or the letter is A or Z?</p> <p>A. <math>\frac{1}{2}</math>                      B. <math>\frac{13}{15}</math>                      C. <math>\frac{26}{8}</math>                      D. <math>\frac{13}{13}</math></p>		<p>4) _____</p>																				

GSE Geometry	Unit 6 – Probability	EOC Review
<p>5) Ms. Klein surveyed 240 men and 285 women about their vehicles. Of those surveyed, 155 men and 70 women said they own a red vehicle. If a person is chosen at random from those surveyed, what is the probability of choosing a woman or a person who does NOT own a red vehicle?</p> <p>A. <math>\frac{14}{57}</math> B. <math>\frac{71}{105}</math> C. <math>\frac{105}{74}</math> D. <math>\frac{105}{88}</math> E. <math>\frac{105}{105}</math></p>	5) _____	
<p>6) Bianca spins two spinners that have four equal sections numbered 1 through 4. If she spins a 4 on at least one spin, what is the probability that the sum of her two spins is an odd number?</p> <p>A. <math>\frac{1}{4}</math> B. <math>\frac{7}{16}</math> C. <math>\frac{4}{7}</math> D. <math>\frac{11}{16}</math></p>	6) _____	
<p>7) Assume that the following events are independent:</p> <ul style="list-style-type: none"><li>• The probability that a high school senior will go to college is 0.72.</li><li>• The probability that a high school senior will go to college and live on campus is 0.46</li></ul> <p>What is the probability that a high school senior will live on campus, given that the person will go to college?</p> <p>A. 0.26 B. 0.33 C. 0.57 D. 0.64</p>	7) _____	
<p>8) A student draws a card from a standard deck and then draws another card without replacing the first card. Explain why the probability of picking an ace on the first draw and the probability of picking a 7 on the second draw are NOT independent events.</p>		



Drag each assignment row up or down to set the order in which students will complete the assignments. Students must complete the assignments in the order you specify here.

Start Date:

*Please note that your students will NOT see the assignment in their assignment list until this date.*

End Date:

*Assignments are available to students for 2 months after the end date but are flagged as past due. You can lock an assignment if you no longer want students to have access.*

Assignment	Minimum Score Requirement <a href="#">Copy First Row</a>	Allow Multiple Attempts <a href="#">Copy First Row</a>	Allow Students to Retry Missed Items <a href="#">Copy First Row</a>
1 Test - Small Test Geometry EOC (GSE)	75% ▼	Unlimited ▼	<input type="radio"/> Yes <input checked="" type="radio"/> No
2 Test - Medium Test Geometry EOC (GSE)	75% ▼	Unlimited ▼	<input type="radio"/> Yes <input checked="" type="radio"/> No
3 Test - Large Test Geometry EOC (GSE)	75% ▼	Unlimited ▼	<input type="radio"/> Yes <input checked="" type="radio"/> No

Completion Order:  In Specific Order  Any Order

## Attachments

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unit\_4b\_segment\_lengths\_and\_volume\_eoc\_review\_1.pdf

unit\_5\_geometric\_and\_algebraic\_connections\_eoc\_review.pdf

unit\_6\_probability\_eoc\_review\_1.pdf

unit\_1\_transformations\_eoc\_review\_2019.pdf

unit\_2\_triangles\_quadrilaterals\_eoc\_review\_2019.pdf

unit\_2b\_similarity\_and\_proofs\_eoc\_review\_1.pdf

unit\_3\_right\_triangles\_eoc\_review\_1.pdf

unit\_4\_circles\_angles\_and\_area\_eoc\_review\_1.pdf